

IN THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of claims in the application:

1-18. (canceled)

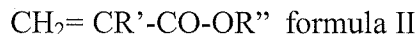
19. (Currently Amended) An adhesive composition comprising an amount of an adhesive and an amount of at least one additive, ~~wherein~~ characterized in that the additive comprises:

a. at least one homopolymer of an ~~alpha-beta-unsaturated~~ α , β -unsaturated monocarboxylic acrylic acid having 3-5 carbon atoms, which corresponds to formula I:



wherein R is a substituent selected from the group of H, monovalent alkyl, aryl, alkylaryl radicals, monovalent cyclo alkyl radicals, alkoxy, haloalkyl, cyanoalkyl containing 1 to 9 carbon atoms,

b. or at least one copolymer thereof with at least one alkyl acrylate represented by formula II



in which R' is selected from the group of H, methyl, ethyl and with an additive where R'' is a C₁₀-C₃₀ alkyl group,

the at least one homo- or copolymer being cross-linked with a cross-linking agent which is a polyfunctional alkylalkylene or a polyfunctional alkyalkylidene monomer containing at least two terminal methylene CH₂=C groups, and the cross-linked homo-or copolymer having a molecular weight of between 0.05 billion Dalton-100 billion Dalton.

20. (Previously Presented) The adhesive composition of claim 19, wherein the homo- or

copolymer is cross-linked with a cross-linking agent which is a polyfunctional vinylidene monomer.

21. (Currently Amended) The adhesive composition of claim 19, wherein the at least one homo- or copolymer is cross-linked with a cross-linking agent, the cross-linked homo- or copolymer having a molecular weight of between 0.5-10 billion Dalton.

22. (Currently Amended) The adhesive composition of claim 19, wherein the at least one homo- or copolymer is cross-linked with a cross-linking agent, the cross-linked homo- or copolymer having a molecular weight of between 1-5 billion Dalton.

23. (Previously Presented) The adhesive composition of claim 19, wherein the at least one homo- or copolymer is a polymer of acrylic acid or methacrylic acid.

24. (Previously Presented) The adhesive composition of claim 19, wherein in formula II, R" is a C₁₀-C₂₀ alkyl group.

25. (Previously Presented) The adhesive composition of claim 19, wherein the cross-linking agent is a polyalkenyl polyether.

26. (Previously Presented) The adhesive composition of claim 25, wherein the cross-linking agent is an allylpentaerythritol.

27. (Previously Presented) The adhesive composition of claim 19, wherein the adhesive composition is a pseudo plastic material.

28. (Previously Presented) The adhesive composition of claim 19, wherein the adhesive composition is an adhesive composition based on starch, cellulose, pea originating cellulose or a polyvinylacetate adhesive composition or a mixture of two or more of these.

29. (Previously Presented) The adhesive composition of claim 19, wherein the composition

contains at least 0.001 wt. %, and less than 5 wt. %, of the at least one additive with respect to the total weight of the adhesive composition.

30. (Previously Presented) The adhesive composition of claim 19, wherein the composition contains between 0.5-50 parts by weight of starch, between 0.01-2.5 parts by weight of alkali hydroxide, between 0.01-2 parts by weight of borax and between 80-150 parts by weight of water.

31. (Previously Presented) A process for producing the adhesive composition as claimed in claim 19, wherein the at least one additive is first diluted with starch, cellulose or a polyvinylacetate adhesive in a weight ratio of 75-100 parts by weight of starch, and 0.5-10 parts of polyacrylate, and thereafter mixed with the adhesive composition.

32. (Previously Presented) The process of claim 31, wherein 1-5 parts of optical clarification agent is added to the adhesive composition.

33. (Previously Presented) A process for the production of laminated corrugated paper or card board, comprising a plurality of super imposed layers of corrugated paper or card connected together by intermittent flat sheets of paper, wherein an amount of the adhesive composition according to claim 19 is applied to the top of the corrugations, where after the layers are adhered to each other under pressure.

34. (Previously Presented) Paper board or card board comprising a plurality of super imposed layers of corrugated paper or card connected together by intermittent flat sheets of paper, wherein the layers are adhered to each other by means of the adhesive composition as claimed in claim 19.

35. (Original) A compact paper or card board comprising a plurality of super imposed layers of paper or card, which are adhered to each other by means of the adhesive composition of claim 19.

36. (Original) Paper comprising an amount of the adhesive composition as claimed in claim 19.

37. (Previously Presented) A process for the production of compact paper or card board comprising a plurality of super imposed layers of paper or card, wherein an amount of the adhesive composition of claim 19 is applied to the layers, where after the layers are adhered to each other under pressure.

38. (Previously Presented) A solid premix which is wherein it contains about 5-50 parts of alkali, about 200-750 parts of starch powder, about 0.01-5 parts of the at least one additive claimed in claim 19.

39. (Previously Presented) The solid premix of claim 38, wherein the solid premix further contains about 20-80 parts of gelatinised starch.

40. (Previously Presented) The solid premix of claim 38, wherein the premix contains about 1-25 parts of a buffer.

41. (Previously Presented) The solid premix of claim 40, wherein borax is used as the buffer.

42. (Previously Presented) The adhesive composition of claim 19, wherein the composition contains at least 0.05 wt. % and less than 1 wt. % of the at least one additive with respect to the total weight of the composition.

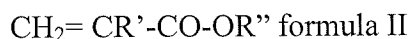
43. (Currently Amended) An adhesive composition comprising an amount of an adhesive and an amount of at least one additive, wherein the additive comprises:

a. at least one homopolymer of an ~~alpha-beta-unsaturated~~ alpha, beta-unsaturated monocarboxylic acrylic acid having 3-5 carbon atoms, which corresponds to formula I:



wherein R is a substituent selected from the group of H, monovalent alkyl, aryl, alkylaryl radicals, monovalent cyclo alkyl radicals, alkoxy, haloalkyl, cyanoalkyl containing 1 to 9 carbon atoms,

b. or at least one copolymer thereof with at least one alkyl acrylate represented by formula II



in which R' is selected from the group of H, methyl, ethyl and with an additive where R'' is a C₁₀-C₃₀ alkyl group,

the at least one homo- or copolymer being cross-linked with a cross-linking agent which is a polyfunctional alkylalkylene or a polyfunctional alkyalkylidene monomer containing at least two terminal methylene CH₂=C groups.

44. (Previously Presented) An adhesive composition of claim 43, wherein the additive has a molecular weight of between 0.05 billion Dalton-100 billion Dalton.

45. (Previously Presented) An adhesive composition of claim 44, wherein the additive has a molecular weight of between 0.5 billion Dalton-10 billion Dalton.

46. (Previously Presented) An adhesive composition of claim 44, wherein the additive has a molecular weight of between 1 billion Dalton-5 billion Dalton.